Subhas Ganguly

List of Publications by Year
in descending order

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41	587	687335 13	642715 23
papers	citations	h-index	g-index

42	42	42	410
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genetic Algorithms in Optimization of Strength and Ductility of Low-Carbon Steels. Materials and Manufacturing Processes, 2007, 22, 650-658.	4.7	51
2	Designing High Strength Multi-phase Steel for Improved Strengthâ€“Ductility Balance Using Neural Networks and Multi-objective Genetic Algorithms. ISIJ International, 2007, 47, 1195-1203.	1.4	49
3	Genetic algorithm based optimization for multi-physical properties of HSLA steel through hybridization of neural network and desirability function. Computational Materials Science, 2009, 45, 104-110.	3.0	38
4	Identification of Factors Governing Mechanical Properties of TRIP-Aided Steel Using Genetic Algorithms and Neural Networks. Materials and Manufacturing Processes, 2008, 23, 130-137.	4.7	35
5	Evolution of glass forming ability indicator by genetic programming. Computational Materials Science, 2016, 118, 56-65.	3.0	35
6	Automatic recognition of SEM microstructure and phases of steel using LBP and random decision forest operator. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107224.	5.0	33
7	Genetic algorithm-based search on the role of variables in the work hardening process of multiphase steels. Computational Materials Science, 2009, 45, 158-166.	3.0	32
8	Multivariate analysis and classification of bulk metallic glasses using principal component analysis. Computational Materials Science, 2015, 107, 79-87.	3.0	30
9	Investigating the role of metallic fillers in particulate reinforced flexible mould material composites using evolutionary algorithms. Applied Soft Computing Journal, 2012, 12, 28-39.	7.2	29
10	Simulating Time Temperature Transformation Diagram of Steel Using Artificial Neural Network. Materials and Manufacturing Processes, 2009, 24, 169-173.	4.7	27
11	Modelling the steel microstructure knowledge for in-silico recognition of phases using machine learning. Materials Chemistry and Physics, 2020, 252, 123286.	4.0	22
12	Artificial Neural Network (ANN)-Based Model for In Situ Prediction of Porosity of Nanostructured Porous Silicon. Materials and Manufacturing Processes, 2008, 24, 83-87.	4.7	18
13	A predictable glass forming ability expression by statistical learning and evolutionary intelligence. Intermetallics, 2017, 90, 9-15.	3.9	14
14	Development of a blast-induced vibration prediction model using an artificial neural network. Journal of the Southern African Institute of Mining and Metallurgy, 2019, 119, .	0.3	14
15	New training strategies for neural networks with application to quaternary Alâ€“Mgâ€“Scâ€“Cr alloy design problems. Applied Soft Computing Journal, 2016, 46, 260-266.	7.2	13
16	Design of the Directly Air-cooled Pearlite-free Multiphase Steel from CCT Diagrams Developed Using ANN and Dilatometric Methods. ISIJ International, 2008, 48, 649-657.	1.4	12
17	Informatics-Based Uncertainty Quantification in the Design of Inorganic Scintillators. Materials and Manufacturing Processes, 2013, 28, 726-732.	4.7	12
18	Grain Boundary Detection and Phase Segmentation of SEM Ferriteâ€“Pearlite Microstructure Using SLIC and Skeletonization. Journal of the Institution of Engineers (India): Series D, 2019, 100, 203-210.	1.0	12

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19	Optimization of process parameters of friction stir welded joints of marine grade AA 5083. Materials Today: Proceedings, 2021, 44, 2957-2962.	1.8	12
20	Designing the Multiphase Microstructure of Steel for Optimal TRIP Effect: A Multiobjective Genetic Algorithm Based Approach. Materials and Manufacturing Processes, 2008, 24, 31-37.	4.7	11
21	Effect of copper and microalloying (Ti, B) addition on tensile properties of HSLA steels predicted by ANN technique. Ironmaking and Steelmaking, 2009, 36, 125-132.	2.1	11
22	Effect of oxygen vacancies on the dielectricity of Ga doped equimolar BiMnO3â€“BaTiO3 characterized by XPS analysis. Physica B: Condensed Matter, 2022, 626, 413570.	2.7	9
23	Modeling the Effect of Copper on Hardness of Microalloyed Dual Phase Steel through Neural Network and Neuro-fuzzy Systems. ISIJ International, 2005, 45, 1345-1351.	1.4	7
24	Genetic algorithm based search of parameters for fabrication of uniform porous silicon nanostructure. Computational Materials Science, 2009, 45, 60-64.	3.0	7
25	Structure, dielectricity and ferroelectricity measurement of new perovskite ceramics (1-x)BaTiO3-xBiMnO3 synthesized by solid-state reaction. Materials Chemistry and Physics, 2021, 260, 124114.	4.0	7
26	Investigation of the thermal properties of Cuâ€“Ag core-shell nanowires using molecular dynamics simulation. Physica B: Condensed Matter, 2022, 636, 413876.	2.7	7
27	Computational design and development of novel Al-Mg-Sc-Cr alloy. Multidiscipline Modeling in Materials and Structures, 2015, 11, 401-412.	1.3	6
28	Exploring the Possibilities of Development of Directly Quenched TRIP-Aided Steel by the Artificial Neural Networks (ANN) Technique. Materials and Manufacturing Processes, 2008, 24, 68-77.	4.7	5
29	In silico Design of High Strength Aluminium Alloy Using Multi-objective GA. Lecture Notes in Computer Science, 2015, , 316-327.	1.3	5
30	Anomalous enhancement of strength-ductility combination in FSW joints of AA7039. Manufacturing Letters, 2019, 22, 1-5.	2.2	5
31	Effect of quaternary zirconium addition on mechanical properties of Al-6Mg-Sc (0.2-0.6%) alloy studied by ANN technique. International Journal of Mechatronics and Manufacturing Systems, 2010, 3, 144.	0.1	4
32	Evolutionary intelligence in design and synthesis of bulk metallic glasses by mechanical alloying. Materials and Manufacturing Processes, 2017, 32, 1059-1066.	4.7	4
33	Microstructural properties of lead free BiMnO₃ ceramic prepared by mechanochemical synthesis. IOP Conference Series: Materials Science and Engineering, 2019, 577, 012162.	0.6	4
34	Development of High-Strength Cu-Ni-Ti-B Multiphase Steel by Direct Air Cooling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2555-2568.	2.2	2
35	DETERMINATION OF MS TEMPERATURE IN COPPER-BEARING MICROALLOYED STEEL BY THE ANN TECHNIQUE. Canadian Metallurgical Quarterly, 2008, 47, 91-98.	1.2	2
36	Influence of Ga Doping on Multiferroic Behaviour of Modified BiMnO3-BaTiO3 Ceramics. Journal of the Institution of Engineers (India): Series D, 0, , 1.	1.0	1

#	Article	IF	Citations
37	Sintering effect on the structure and multiferroic behavior of nanostructured BiMnO₃ ceramic synthesized by mechanochemical route. Ferroelectrics, 2021, 585, 97-110.	0.6	1
38	Effect of process parameters on friction stir welded joints of AA 7039. Materials Today: Proceedings, 2022, , .	1.8	1
39	Modeling of Steelmaking Processes. Advances in Chemical and Materials Engineering Book Series, 2016, , 369-421.	0.3	0
40	Imprecise Knowledge and Fuzzy Modeling in Materials Domain. Advances in Chemical and Materials Engineering Book Series, 2016, , 252-266.	0.3	0
41	Synthesis of novel nanostructured 0.6BMO-0.4BT perovskite ceramic and its thermal, structural and mechanical characteristics. Materials Today: Proceedings, 2022, , .	1.8	0